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Student Result Management System

R. Meena[1], G. Bhavani Prasad[2], K. Sukanth[3], K. Pavan Kumar[4]
Assistant Professor, Department of Computer Science and Engineering[1]
UG Students, Department of Computer Science and Engineering[2,3,4]
Prathyusha Engineering College, Thiruvallur, India

Abstract: *The Student Result Management System (SRMS) is an online application designed to manage and track students' grades. The application uses PHP as the server-side language, MySQL for the backend, and HTML, CSS, and JavaScript for the frontend. The aim of SRMS is to automate the process of managing and preparing semester exam results. This will reduce the time and effort required for manual processing and improve the overall efficiency of the system. Additionally, the system provides a secure platform for students and administrators to access the exam results. Students can easily view their grades and subject status by logging in with their username and password. The registration system is available for new students, while guest users can only view the results without any editing privileges. The primary goal of the paper is to provide a simple and user-friendly interface for students to access their results quickly and easily.*

Keywords: PHP, result management, XAMPP, MySQL, Student Result Management System

I. INTRODUCTION

The primary aim of this study is to create a computerized system that automates the management and publication of student results. This document seeks to establish the software requirements for the Student Outcomes Management System (SRMS), with the goal of improving its robustness and accuracy. The decision document outlines the features that will be supported by the SRMS software and specifies the various requirements that it must fulfill. An accompanying diagram provides a comprehensive overview of student results, including their registration number, subject name, and marks. This information can be accessed by administrators to perform result analysis, and it can also be utilized by users to check their current status through the portal.

II. EXISTING SYSTEM

At present, students are solely reliant on the administration to obtain any necessary information. The manual process may cause delays in receiving the results of specific subjects. Furthermore, the current system does not allow students to access their course details, results, and other relevant information.

2.1 Drawbacks of the previous systems

When a computer program is developed using the C programming language, it can be reliant on the underlying operating system. If linear search is implemented for file handling, it may contribute to increased time complexity. Additionally, C programs may not offer the same advantages and enhanced features as those found in web applications.

2.2 Proposed Work

The proposed system comprises of two primary responsibilities: student and administration. Three different roles will be able to utilize the system, which is managed by the administrator. Anyone with permission to access the database will be able to retrieve the information stored within it. The administrator will have unrestricted access to the system, whereas the student will only be able to access their profile and view the results for each semester.

Every data is subjected to three operations: r-Read, w-Write, and x-Execute.

Data modification can only be performed by the administrator. To access the system, both student and administrator roles must first be authenticated using their login credentials, which are encrypted to prevent MIMA attacks. After a successful authentication, the user is granted access to their modules, while an unsuccessful attempt results in a prompt directing them back to the homepage with the message "Mismatch username/password." Upon logging in, a session is

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established between the user and the server, which can be terminated by the user at any time by clicking the logout button.

All student information is stored in a relational database built using MySQL server, with records processed using logical gates in response to queries. The database is designed to meet standardized requirements and maintain ACID characteristics. All successful transactions are committed, while problematic ones trigger a rollback, restoring the data to its original committed state.

III. MODULES

1. Student Module
2. Admin Module

Student Module:

- Students can view the results.
- Student can download the results..
- Login, Profile , Setting , Result , and Download Marks Sheet are the five modules available to students .

Admin Module:

Create and manage the subjects, class and can add the students and their results of the students. Reports for various modules. Update or deleting the admin information. Register, Login, Profile , Setting , Upload , and Logout are the six modules available to the administrator .

Algorithms/programs in Use:

As previously mentioned, there are numerous computer programs available today that aid users in locating and storing fundamental information, such as a student's name, grades, and seat number. However, any additional computational tasks either necessitate manual labor by university faculty or require a distinct software solution..

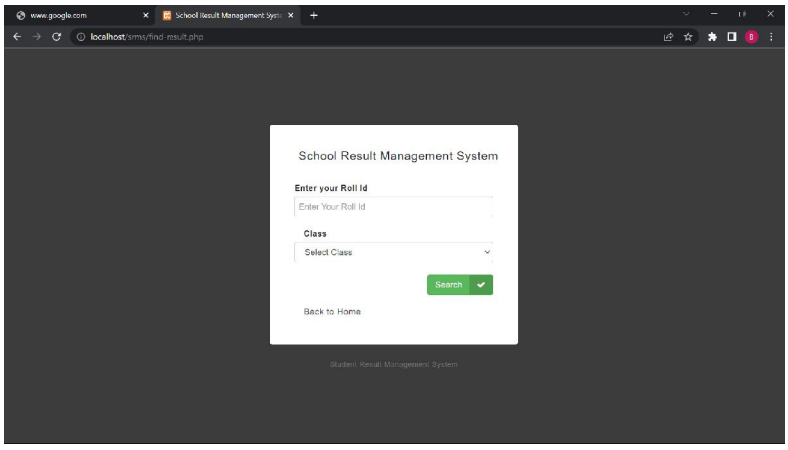
The proposed approach and its advantages over the previous system are as follows:

Friendly to the user (as faculties can easily use web based application).

AVAILABILITY AT ALL TIMES.

(As long as the computer is linked to the network, the system is available.) Simple computation. Simple storage

STUDENT LOGIN:



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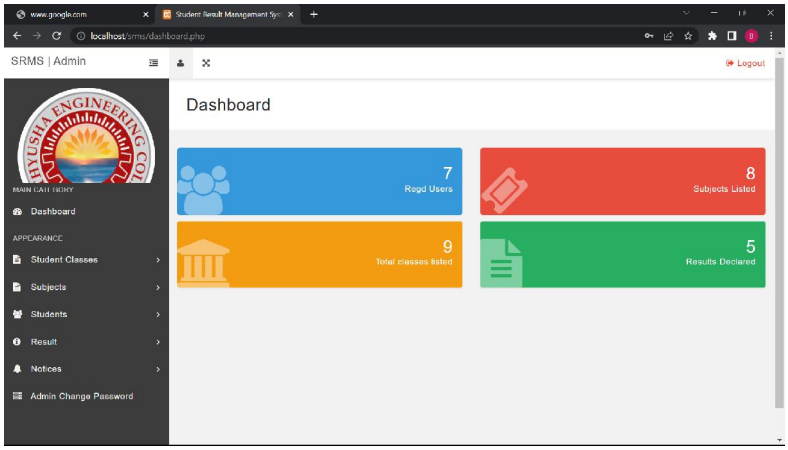
ADMIN LOGIN INTERFACE:



IV. CONCLUSION

This work focuses on the Student Result Management System (SRMS), which is designed to address the difficulties that students face with their academic records. The SRMS is developed using PHP, MYSQL, HTML, CSS, and JAVASCRIPT, and is hosted locally using Apache web server. The development process of the product is based on the Participatory Steady Process Model (PIP Model). The framework's key components are explained in detail, providing a comprehensive breakdown of its primary functions. Additionally, a use case diagram is presented, illustrating the various types of users and the corresponding functionalities associated with each user.

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